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PATENT

Case Docket No. NAGAT42.001AUS

Date: March 19, 2002

Page 1

In re application of : Jin et al.  
App. No. : 10/029,540  
Filed : December 20, 2001  
For : ROTATION SENSOR  
Examiner : Unknown  
Art Unit : Unknown

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Trademark Office, P.O. Box 2327, Arlington, VA 22202, on

March 19, 2002

(Date)

Eric M. Nelson, Reg. No. 43,829

UNITED STATES PATENT AND TRADEMARK OFFICE  
P.O. Box 2327  
Arlington, VA 22202

Sir:

Transmitted herewith is a **Preliminary Amendment** in the above-identified application.

The fee has been calculated as shown below:

CLAIMS AS FILED						ADDITIONAL FEE
	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NO. PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE	
Total Claims	8	—	20	= 0 ×	\$18	= \$0
Independent Claims	1	—	3	= 0 ×	\$84	= \$0
If application has been amended to contain multiple dependent claim(s), then add					\$280	= \$0
Time Extension Fee						\$0
TOTAL ADDITIONAL FEE FOR THIS AMENDMENT						\$0

(X) Figure 3 with changes made in red.

(X) Return prepaid postcard.

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- (X) Please charge any additional fees, including any fees for additional extension of time, or credit overpayment to Deposit Account No. 11-1410.



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Eric M. Nelson  
Registration No. 43,829  
Attorney of Record

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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) Group Art Unit Unknown

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) Commissioner for Patents, Washington, D.C.  
) 20231, on

March 19, 2002

(Date)

Eric M. Nelson, Reg. No. 43,829

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

Prior to examination, please amend the above-referenced application as follows:

IN THE SPECIFICATION

Please replace the paragraph beginning at page 4, line 25, with the following rewritten paragraph:

The first guide ring 11c is ring-shaped and is engaged with a step 12f (to be described later) of the fixed core 12 to guide rotation of the first rotor 11 with respect to the fixed core 12. For that reason, the first guide ring 11c is made of the same material as used for a second guide ring 13c (to be described later), for example, a metal such as a copper alloy and aluminum or a synthetic resin. The first guide ring 11c has a multiplicity of protrusions 11d formed on the periphery and on the upper and lower surfaces and arranged circumferentially so as to reduce friction with the fixed core 12. It should be noted here that the first guide ring 11c may have ridges 11e extended in the circumferential direction in place of the protrusions 11d so long as the intended purpose is attained.

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